IN THE SPECIFICATION:

Please substitute the attached sections or paragraphs of pages 9, 10, 11 and 12 for the relevant sections or paragraphs of pages 9, 10, 11 and 12 of record.

Section 4 of Page 9 of Specification:

1.1.1) Start loop for the attenuator element (k)

$$\sigma a_{PE(i,j,k)} + \sigma a_{PP(i,j,k)} + Z_{(k)} \times \sigma a_{C(i,j,k)}$$

$$\mu_{a(i;j;k)} = [\sigma a_{PE(i,j,k)} + \sigma a_{PP(i,j,k)} + Z_{(k)} \times \sigma a_{C(i,j,k)}] \times \rho_{(k)} \times Av / A_{(k)}$$

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where: $\sigma a_{PE(i,j,k)}$ = effective photoelectric absorption cross-section

$\sigma a_{C(i,j,k)}$ = Compton effective absorption cross-section

Section 2 of Page 10 of Specification:

$$\mu_a{}^{(NaI)}_{(i,j)} = [\sigma a^{(NaI)}_{PE(j)} + Z_{(NaI)} X \sigma a^{(NaI)}_{C(j)}] X \frac{Av}{A_{(NaI)}} X \rho(NaI)$$

Section 2 of Page 11 of Specification

$$\sigma dif_{C(j')} \ (NaI) \ \times \ z_{(NaI)} \ \times \ Final \ flux_{(i,j',k)} \ \times \ Av \ \times \ \rho_{(NaI)} \ \times \ \frac{}{A_{(NaI)}}$$

Section 2 of Page 12 of Specification

$$= \quad \sigma \text{dif}_{C(j")} \text{ (NaI)} \times Z_{(NaI)} \times \text{final flux}_{(i,j,k)} \times Av \quad \times \rho_{(NaI)} \times \frac{X_{(NaI)}}{A_{(NaI)}}$$

where: $\sigma \text{dif}_{C(j")}$ (Nai) = effective Compton front scattering cross-section

Section 5 of Page 12 of Specification

$$= \sigma dif_{C(j''')} (NaI) \times Z_{(NaI)} \times \text{final flux}_{(i,j,k)} \times \frac{Av}{A_{(NaI)}} \times \rho_{(NaI)} \times X_{(NaI)}$$

where: $\sigma dif_{C(j''')} =$ effective Compton background scattering cross-section.